

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/015556

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B19/042 G05B23/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G05B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/022894 A1 (ERYUREK EVREN ET AL) 21 February 2002 (2002-02-21)	1,2, 4-10, 17-20
Y	the whole document	3,11-16
Y	US 6 445 963 B1 (BLEVINS TERRENCE L ET AL) 3 September 2002 (2002-09-03)	3,11-20
A	the whole document	1,2,4-10
Y	US 2004/075689 A1 (SCHLEISS DUNCAN ET AL) 22 April 2004 (2004-04-22) cited in the application	1-20
Y	the whole document	
Y	US 6 633 782 B1 (SCHLEISS TREVOR D ET AL) 14 October 2003 (2003-10-14)	1-20
	the whole document	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents:

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Date of the actual completion of the international search

Date of mailing of the international search report

18 August 2005

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Vaño Gea, J

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/015556

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2002022894	A1	21-02-2002	CN	1522391 A		18-08-2004
			CN	1529836 A		15-09-2004
			EP	1395884 A2		10-03-2004
			EP	1393138 A2		03-03-2004
			JP	2004530983 T		07-10-2004
			JP	2004533056 T		28-10-2004
			WO	02095509 A2		28-11-2002
			WO	02095510 A2		28-11-2002
			US	2002163427 A1		07-11-2002
			US	2005007249 A1		13-01-2005
			US	2002147511 A1		10-10-2002
			CN	1325038 A		05-12-2001
			EP	1158019 A2		28-11-2001
			JP	2002173597 A		21-06-2002
			TW	522435 B		01-03-2003
			US	2002008470 A1		24-01-2002
			US	2005079447 A1		14-04-2005
			CN	1494668 A		05-05-2004
			CN	1496500 A		12-05-2004
			CN	1537258 A		13-10-2004
			CN	1494669 A		05-05-2004
			CN	1494670 A		05-05-2004
			CN	1494671 A		05-05-2004
			EP	1366397 A2		03-12-2003
			EP	1364262 A2		26-11-2003
			EP	1366398 A2		03-12-2003
			EP	1366399 A1		03-12-2003
			EP	1366400 A2		03-12-2003
			EP	1364263 A2		26-11-2003
			JP	2004537773 T		16-12-2004
			JP	2004523841 T		05-08-2004
			JP	2004526243 T		26-08-2004
			JP	2004532449 T		21-10-2004
			JP	2004529418 T		24-09-2004
			JP	2004533036 T		28-10-2004
			WO	02071168 A1		12-09-2002
			WO	02071169 A2		12-09-2002
			WO	02071170 A2		12-09-2002
			WO	02071171 A2		12-09-2002
			WO	02071172 A2		12-09-2002
			WO	02071173 A2		12-09-2002
			US	2002123856 A1		05-09-2002
			US	2002161940 A1		31-10-2002
			US	2002147506 A1		10-10-2002
			US	2002169514 A1		14-11-2002
			US	2003028268 A1		06-02-2003
			US	2004204775 A1		14-10-2004
			US	2002123864 A1		05-09-2002
			US	2005033466 A1		10-02-2005
US 6445963	B1	03-09-2002	DE	10048360 A1		10-05-2001
			GB	2355545 A ,B		25-04-2001
			GB	2393528 A ,B		31-03-2004
			HK	1061578 A1		04-02-2005
			JP	2001216003 A		10-08-2001
US 2004075689	A1	22-04-2004	CN	1542575 A		03-11-2004
			DE	10348563 A1		27-05-2004

Form PCT/ISA/210 (patent family annex) (January 2004)

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US2005/015556

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004075689	A1	DE 10348564 A1 GB 2395801 A GB 2396026 A JP 2004199655 A JP 2004199656 A US 2005096872 A1 US 2004153804 A1	13-05-2004 02-06-2004 09-06-2004 15-07-2004 15-07-2004 05-05-2005 05-08-2004
US 6633782	B1 14-10-2003	US 6298454 B1 DE 10007971 A1 GB 2347234 A ,B JP 2001022430 A DE 10007972 A1 DE 10008020 A1 GB 2347232 A ,B GB 2347233 A ,B JP 3552629 B2 JP 2000250619 A JP 2000305620 A JP 2004206735 A US 6615090 B1 US 2002010562 A1 US 2002077711 A1	02-10-2001 26-10-2000 30-08-2000 26-01-2001 19-10-2000 24-08-2000 30-08-2000 30-08-2000 11-08-2004 14-09-2000 02-11-2000 22-07-2004 02-09-2003 24-01-2002 20-06-2002

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